

ATG GCT CCC CTA CAG ACT GCA CTC CTG GTT GTC CTC GTC CTC CTT GCT GTG GCG CTT CAA
 GCA ACT GAG GCA GGC CCC TAC GTC GCC AAC ATG GAA GAC AGC GTC TGC TGC CGT GAT TAC
 GTC CGT TAC CGT CTG CCC CTC CGC GTG GTG AAA CAC TTC TAC TGG ACC TCA GAC TGC TGC
 CCG AGG CGT GGC GTC GTG TTG CTX ACC TTC AGG GAT AAG GAG ATC TGT GCC GAT CCC AGA
 GTG CCC TGG GTG AAG ATG ATT CTC AAT AAG CTC AGC CAA TGA
 AGAGCGTACTCTGATGACCGTGGCGTTGGCTCTTCAGGAAGGCTCAGGAGCGCTACCTCCCTGCCATTATAGCTGCTC
 CCGCCAGAGCGCTGTGCCAACTCTCTGCAITCCCTGATCTCCATCCCTGTGGCTGTACCCCTTGGTCACCTCCGTGCT
 GTCACTGCCATCTCCCCCTGACCCCTCTAAACCTCTCTCTCCCTCCCTCCCTGCAGTCAGAGGGTCTCTTTCCTCA
 CGGATTCCTCTGCTTAAACCTTCCATGACTTCCACTGCCCTAAGCTCAGGTCACTCTCCCAAGCTCGCATGTGGCC
 CTCGGATCTGGGTTCCTTTCTGTCTCCAGTCTGCCCACTTCCCTTCATGAATGTGGGTCTAGCTCCCTGTCTCTC
 AAACCCATACTACACATCCCACTTCTGGGTCCTGCCCTGGGATGTTCTCTCACTCAGAAAGTCCCTCTGACCGCGCC

FIG. 1

I K V A K A E A A G H R D T L Y T M L I	387
ATA AAG GTG GCT AAA GCT GAG GCA GCG GGC CAC AGG GAC ACC TTG TAC ACG ATG CTG ATA	1288
K W V N K T G R D A S V H T L L D A L E	407
AAG TGG GTC AAC AAA ACC GGG CGA GAT GCC TCT GTC CAC ACC CTG CTG GAT GCC TTG GAG	1348
T L G E R L A K Q K I E D H L L S S G K	427
ACG CTG GGA GAG AGA CTT GCC AAG CAG AAG ATT GAG GAC CAC TTG TTG AGC TCT GGA AAG	1408
F M Y L E G N A D S A M S *	441
TTC ATG TAT CTA GAA GGT AAT GCA GAC TCT GCC ATG TCC TAA	1450
GTGTGATTCTCTTCAGGAAGTGAGACCTTCCTGGTMTACCTMTTTCCTGGAAAAAGCCCACTGGACTCCAGTCAGTA	1529
GGAAAGTGCCCAAAATGTGCATGACCGGTACTGGAAGAACTCTCCCATCCAACATCAGGATGGATGGAACATCCT	1608
GTAACCTTTTCACTGCACTTGGCATTATTTTTATAAGCTGAATGTGATAATAAGGACACTATGGAAATGTCTGGATCATT	1687
CCGTTTGTGGTACTTTGAGATTGGTMTGGGATGTCATTGTMTTTCACAGCACTMTTTCCTAATGTAAATGCTTTA	1766
TTTATTTATTGGGCTACATTGTAGATCCATCTACACAGTCGTGTGTCGACTTCACCTGATACTATATGATATGAACC	1845
TTTTTGGGTGGGGGGTCCNGGGCAATTCACCTCTGTCTCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTATA	1924
GGCTTGACCTCTGAGGCTCAAGCGATTCTCTCACCTCAGCCATCCAAATAGCTGGGACCACAGGTGTGCACCACCACGC	2003
COGGCTAATTTTTGTATTMTGTCTAAATATAAGGGCTCTCTATGTTGCTCAGGGTGGTCTCGAATTCCTGGACTCAAG	2082
CAGTCTGCCCACTCAGACTCCCAAAGCGGTGAATTAGARGCGTGAGCCCCCATGCTTGGCCTTACCTTTCTACCTTTT	2161
TATAATTCTGTATGTTATTATTTTATGAACATGAAGAACTTTAGTAAATGTACTTGTMTTACATAGTTATGTGAATAGA	2240
TTAGATAAACATAAAAAGGAGGAGACATACAATGGGGGAAGAAGAAGAAGTCCCTGTAGAAGTTNACGNTCTGGTTTC	2319
CAGCCTTCCCTCAGATGTACTTGGCTTCAATGATTGGCAACTTCTACAGGGGCCAGTCTTTTGAAGTGGACAACCTTA	2398
CAAGTATATGAGTATTATTTATAGGTAGTTGTTTACATATGAGTGGGACCAAAGAGAACTGGATCCACGTGAAGTCCT	2477
GTGTGTGGCTGGTCCCTACCTGGGCAGTCTCATTTGCACCCATAGCCCCCATCTATGGACAGGCTGGACAGAGGCAGA	2556
TGGGTAGATCACACATAACAAAGGGTCTATGTTCATATCCCAAGTGAACCTTGAGCCCTGTTTGGGCTCAGGAGATAGA	2635
AGACAAAATCTGTCTCCCAAGTCTGCCATGGCATCAAGGGGAAGAGTAGATGGTGTCTGAGAAATGGTGTGAAATGGTT	2714
GCCATCTCAGGAGTAGATGGCCCGGCTCACTTCTGGTTATCTGTACCCCTGAGCCCATGAGCTGCCTTTTAGGGTACAG	2793
ATTGCCTACTTGAGGAOCTTGGCCGCTCTGTAAAGCATCTGACTCATCTCAGAAATGTCAATTCTTAAACACTGTGGCAA	2872
CAGGACCTAGAATGGCTCAGCATTAAGGTTTTCTTCTGTGTCTCTGTTCTATTATGTGTTTAAAGACCTCAGTAACCAT	2951
TTCAGCCTCTTTCCAGCAAACCTTCTCCATAGTATTTTCACTCATGGAAGGATCATTTATGCAGGTAGTCATTCCAGGA	3030
GTTTTTGGTCTTTTCTGTCTCAAGGCATTGTGTGTTTTGTTCGGGACTGGTTTGGGTGGGACAAAGTTAGAATTGCCT	3109
GAAGATCACACATTCAGACTGTGTGTCTGTGGAGTTTTAGGAGTGGGGGTGACCTTTCTGTCTTTTGCACCTTCCATC	3188
CTCTCCCACTTCCATCTGGCATCCACGGTTGTCCCTGCACCTCTGGAAGGCACAGGGTGCTGCTGCCTCCTGGTCT	3267

FIG. 3 (2 of 3)

TTGCCTTTGCTGGGCTTCTGTGCAGGAAGCTCAGCCTCAGGGCTCAGAAGGTGCCAGTCCGGTCCCAGGTCCCTTGTG 3346
 CCTTCCACAGAGGCCTTCCTAGAAGATGCATCTAGAGTGTGAGCCTTATCAGTGTMTAAGATTTTCTTTTATTTTAA 3425
 TTTTTCGAGACAGAACTCTACTCTCTGGCCAGGCTGGAGTGCACCGGTACGATCTTGGCTCAGTGCACCTCCGCCT 3504
 CCTGGGTCAAGCGATTCCTCGTGCCTCAGCCTCCGGAGTAGCTGGGATTGCAGGCACCCGCCACCAAGCCTGGTTAATT 3583
 TTTGTATTTTCTAGTAGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTT 3662
 GGCCTCCGAAAGTGTGGGATTACAGGCGTGAGCCACCAGCCAGGCCAAGCTATTCTTTTAAAGTAAGCTTCCTGACCA 3741
 CATGAAATAATTGGGGGTTTGTGTGTTAGTTACATTAAGGCTTGTCTATATCCCCAGGCCAAATAGCATGTGACACAGG 3820
 ACAGCCATAGTATAGTGTGTCACCTCGTGGTTGGTGTCTTTCATGCTTCTGCCCCTGTCAAAGGTCCCTATTTGAAATGT 3899
 GTTATAATACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATTTATGAAATCCATGACCAAATTAAATATGAAA 3978
 CCTTATATAAAGGSGGGGGGGCCCC 4051

4051
 3978
 3899
 3820
 3741
 3662
 3583
 3504
 3425
 3346

CCTTCCACAGAGCCTTCCTAGAAGATGCATCTAGAGTGTGAGCCTTATCAGTGTFTAAGATTTTCTTTTATTTTAA 3338
 TTTTTTIGAGACAGAACTCTACTCTCTGCCCCAGGCTGGAGTGCAAAGGTACGATCTTGGCTCAGTGCAACCTCCGCCT 3417
 CCTGGGTTCAAGCGATTCCTGTCCTCAGCCTCCGAGTAGCTGGGATTGCAGGCACCCGCCACCAAGCCTGGTTAATT 3496
 TTTGTATTTTATAGTAGAGACGGGGTTTCAACCATGTTGGTCAGGCTGGTCTCGAACTCCTGAOCTCAGGTGATCCACCTT 3575
 GGCTCCGAAAGTGCTGGGATTACAGGGGTGAGCCACCAGCCAGGCCAAGCTATTCTTTTAAAGTAAGCTTCCTGACGA 3654
 CATGAAATAATTGGGGTTTGTGTTTAGTTACATTAGGCTTTGCTATATCCCCAGGCCAAATAGCATGTGACACAGG 3733
 ACAGCCATAGTATAGTGTGTCCTGTTGGTTGGTGTCTTTCAITGCTTCTGCCCTGTCAAAGGTCCCTATTTGAAATGT 3812
 GTTATAATACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATTTATGAATCCATGACCAAATTAAATATGAAA 3891
 CCTTATATAAAGGSGGGGGCCCGC 3964

CCACGCGTCCGCGCGGGCGCTGCGCTGAGGGGACGGCGGGAGGGCGGGCGCTGGCCTCGCACTCAAAGCGCGCGCAGCGC 79
 GCGCGCGGCTCGGCGGACCGCGGGGATCTAGGGGTGGGCGACTTCGCGGGACCGTGGCGCATGTTTCTGGGAGTTA 158
 M K L H Y V A V L T L A I L 14
 CTGATCATCTTCTTTGAAGAAAC ATG AAG TTA CAC TAT GTT GCT GTG CTT ACT CTA GCC ATC CTG 223
 M F L T W L P E S L S C N K A L C A S D 34
 ATG TTC CTG ACA TGG CTT CCA GAA TCA CTG AGC TGT AAC AAA GCA CTC TGT GCT AGT GAT 283
 V S K C L I Q E L C Q C R P G E G N C S 54
 GTG AGC AAA TGC CTC ATT CAG GAG CTC TGC CAG TGC CGG CCG GGA GAA GGC AAT TGC TCC 343
 C C K E C M L C L G A L W D E C C D C V 74
 TGC TGT AAG GAG TGC ATG CTG TGT CTT GGG GCC CTT TGG GAC GAG TGC TGT GAC TGT GTT 403
 G M C N P R N Y S D T P E T S K S T V E 94
 GGT ATG TGT AAT CCT CGA AAT TAT AGT GAC ACA CCT CCA ACT TCA AAG AGC ACA GTG GAG 463
 E L H E P I P S L F R A L T E G D T Q L 114
 GAG CTG CAT GAA CCG ATC CCT TCT CTC TTC CGG GCA CTC ACA GAA GGA GAT ACT CAG TTG 523
 N W N I V S F P V A E E L S H H E N L V 134
 AAT TGG AAC ATC GTT TCT TTC CCT GTT GCA GAA GAA CTT TCA CAT CAT GAG AAT CTG GTT 583
 S F L E T V N Q P H H Q N V S V P S N N 154
 TCA TTT TTA GAA ACT GTG AAC CAG CCA CAC CAC CAG AAT GTG TCT GTC CCC AGC AAT AAT 643
 V H A P Y S S D K E H M C T V V Y F D D 174
 GTT CAC GCG CCT TAT TCC AGT GAC AAA GAA CAC ATG TGT ACT GTG GTT TAT TTT GAT GAC 703
 C M S I H Q C K I S C E S M G A S K Y R 194
 TGC ATG TCC ATA CAT CAG TGT AAA ATA TCC TGT GAG TCC ATG GGA GCA TCC AAA TAT CGC 763
 W F H N A C C E C I G P E C I D Y G S K 214
 TGG TTT CAT AAT GCC TGC TGC GAG TGC ATT GGT CCA GAA TGT ATT GAC TAT GGT AGT AAA 823
 T V K C M N C M F * 224
 ACT GTC AAA TGT ATG AAC TGC ATG TTT TAA 853
 AGAAGACAAATGCAAACCAAAGCAACTTAGTAAAATAATAGGTATAAAAAGTTATTCTGTAAGTCTGTTGGTTGTATCT 932
 TGTATCAGAATCCAGTAAGTTAAGTTGTAAAGACTTTCGAATAAGTTTCTTTTAAAAATATGACATAGCCAGTGATGT 1011
 GTTTAATTATATAACTGTTCTTACTGATTTTATTGCCCCCTAGCAATAAGCCCTTTCCTTTGAATACATGTACAACCTT 1090
 GGTCAATGAGAAGCAGGTGCGCAGAGAATTCCTTGAAAGATCTGAGGTTTMTAACATGAAGTCTGATGTGTTTTCCT 1169
 CTAGCATTCCAAAAGGTTTTTGCTTTGAAAGTGTAGCAGAAGCATGTTGATGTGAATTATGATTTCTTCATGTGCTAC 1248
 TGTAGCACACTGAGTTTTTATAGTTGCACATCATTCCTCATGTGCTTGTTTTATCCATTTTATAAATAGAGTAGAT 1327
 ATTTGATATACCACTCTGATAACTCATATAAAATATCATCATAAAAAGCTTAATTTTCATCCCTTTTATGTTGGTTTTA 1406
 AAAGGTAATGCTTACCATATTTTATAATTGAGAACTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAA 1485
 GCTTTAGAGAAAGTTTCTATTCTCTTCCATTTCCCTGCCCAAAGTCTGACATAGGCAGTGATGAAGAATCTTTTACC 1564

FIG. 5 (1 of 2)

AAGATTTTCAGGGGTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTGTAAATAATTAGCAAGCAAAAGCGTTTCTGT 1643
 GACTTCAGGTACCAGCTTAAGAGCACTAGGGATGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAAC 1722
 AGCTTGTACCCCTGGTAGGGAAATGGTGTGCTGAAAGGGGAGGCTGAGCCAGTGGGAGACTGAACTTGTGCAGCCTTAG 1801
 CCAAGACAAAGCAGTGTTTTTCAGCAGACGGCTGATGGGACAGGAATTGAAGAAGAGAATTGACTCGTATGAACAGGAC 1880
 AGGGTGAAATGCTGGGAATTATAATGGGAAACAAAACCTATCTATGTTTCATATTTTGTAAATATTCATTGTGTTAAGTTT 1959
 ATATCTGGATATAATGTTCTTTTAAACAAGTATAATCATATCGTGGAGGTTAAGATTATGAAATTTTAGAATCTCTA 2038
 TTCAAGATGATGTTCACTCCAAATACACTACAGAATTTAGTCAACATTTTATATAATGTTTCAATAAATGTTTCTTTCA 2117
 ATAAAAAAAAAAAAAAAAA 2135

M P S L P A P P A P L L L L G L L L L G 20
ATG CCG AGC CTC CCG GCC CCG CCG GCC CCG CTG CTG CTC CTC GGG CTG CTG CTG CTC GGC 60
S R P A R G A G P E P P V L P I R S E K 40
TCC CGG CCG GCC CGC GGC GCC GGC CCA GAG CCC CCC GTG CTG CCC ATC CGT TCT GAG AAG 120
E P L P V R G A A G C T F G G K V Y A L 60
GAG CCG CTG CCC GTT CCG GGA GCG GCA GGC TGC ACC TTC GGC GGG AAG GTC TAT GCC TTG 180
D E T W H P D L G E P F G V M R C V L C 80
GAC GAG ACG TGG CAC CCG GAC CTA GGG GAG CCA TTC GGG GTG ATG CGC TGC GTG CTG TGC 240
A C E A P Q W G R R T R G P G R V S C K 100
GCC TGC GAG GCG CCT CAG TGG GGT CGC CGT ACC AGG GGC CCT GGC AGG GTC AGC TGC AAG 300
N I K P E C P T P A C G Q P R Q L P G H 120
AAC ATC AAA CCA GAG TGC CCA ACC CCG GCC TGT GGG CAG CCG CGC CAG CTG CCG GGA CAC 360
C C Q T C P Q E R S S S E R Q P S G L S 140
TGC TGC CAG ACC TGC CCC CAG GAG CGC AGC AGT TCG GAG CGG CAG CCG AGC GGC CTG TCC 420
F E Y P R D P E H R S Y S D R G E P G A 160
TTC GAG TAT CCG CCG GAC CCG GAG CAT CGC AGT TAT AGC GAC CGC GGG GAG CCA GGC GCT 480
E E R A R G D G H T D F V A L L T G P R 180
GAG GAG CCG GCC CGT GGT GAC GGC CAC ACG GAC TTC GTG GCG CTG CTG ACA GGG CCG AGG 540
S Q A V A R A R V S L L R S S L R F S I 200
TCG CAG GCG GTG GCA CGA GCC CGA GTC TCG CTG CTG CGC TCT AGC CTC CGC TTC TCT ATC 600
S Y R R L D R P T R I R F S D S N G S V 220
TCC TAC AGG CCG CTG GAC CGC CCT ACC AGG ATC CGC TTC TCA GAC TCC AAT GGC AGT GTC 660
L F E H P A A P T Q D G L V C G V W R A 240
CTG TTT GAG CAC CCT GCA GCC CCC ACC CAA GAT GGC CTG GTC TGT GGG GTG TGG CCG GCA 720
V P R L S L R L L R A E Q L H V A L V T 260
GTG CCT CCG TTG TCT CTG CCG CTC CTT AGG GCA GAA CAG CTG CAT GTG GCA CTT GTG ACA 780
L T H P S G E V W G P L I R H R A L A A 280
CTC ACT CAC CCT TCA GGG GAG GTC TGG GGG CCT CTC ATC CGG CAC CGG GCC CTG GCT GCA 840
E T F S A I L T L E G P P Q Q G V G G I 300
GAG ACC TTC AGT GCC ATC CTG ACT CTA GAA GGC CCC CCA CAG CAG GGC GTA GGG GGC ATC 900
T L L T L S D T E D S L H F L L L F R G 320
ACC CTG CTC ACT CTC AGT GAC ACA GAG GAC TCC TTG CAT TTT TTG CTG CTC TTC CGA GGG 960
L L E P R S G G L T Q V P L R L Q I L H 340
CTG CTG GAA CCC AGG AGT GGG GGA CTA ACC CAG GTT CCC TTG AGG CTC CAG ATT CTA CAC 1020
Q G Q L L R E L Q A N V S A Q E P G F A 360
CAG GGG CAG CTA CTG CGA GAA CTT CAG GCC AAT GTC TCA GCC CAG GAA CCA GGC TTT GCT 1080
E V L P N L T V Q E M D W L V L G E L Q 380
GAG GTG CTG CCC AAC CTG ACA GTC CAG GAG ATG GAC TGG CTG GTG CTG GGG GAG CTG CAG 1140

FIG. 6 (1 of 3)

M A L E W A G R P G L R I S G H I A A R 400
 ATG GCC CTG GAG TGG GCA GGC AGG CCA GGG CTG CGC ATC AGT GGA CAC ATT GCT GCC AGG 1200
 K S C D V L Q S V L C G A D A L I P V Q 420
 AAG AGC TGC GAC GTC CTG CAA AGT GTC CTT TGT GGG GCT GAT GCC CTG ATC CCA GTC CAG 1260
 T G A A G S A S L T L L G N G S L I Y Q 440
 ACG GGT GCT GCC GGC TCA GCC AGC CTC ACG CTG CTA GGA AAT GGC TCC CTG ATC TAT CAG 1320
 V Q V V G T S S E V V A M T L E T K P Q 460
 GTG CAA GTG GTA GGG ACA AGC AGT GAG GTG GTG GCC ATG ACA CTG GAG ACC AAG CCT CAG 1380
 R R D Q R T V L C H M A G L Q P G G H T 480
 CGG AGG GAT CAG CGC ACT GTC CTG TGC CAC ATG GCT GGA CTC CAG CCA GGA GGA CAC ACG 1440
 A V G I C P G L G A R G A H M L L Q N E 500
 GCC GTG GGT ATC TGC CCT GGG CTG GGT GCC CGA GGG GCT CAT ATG CTG CTG CAG AAT GAG 1500
 L F L N V G T K D F P D G E L R G H V A 520
 CTC TTC CTG AAC GTG GGC ACC AAG GAC TTC CCA GAC GGA GAG CTT CGG GGG CAC GTG GCT 1560
 A L P Y C G H S A R H D T L S V P L A G 540
 GCC CTG CCC TAC TGT GGG CAT AGC GCC CGC CAT GAC ACG CTG TCC GTG CCC CTA GCA GGA 1620
 A L V L P P V K S Q A A G H A W L S L D 560
 GCC CTG GTG CTA CCC CCT GTG AAG AGC CAA GCA GCA GGG CAC GCC TGG CTT TCC TTG GAT 1680
 T H C H L H Y E V L L A G L G G S E Q G 580
 ACC CAC TGT CAC CTG CAC TAT GAA GTG CTG CTG GCT GGG CTT GGT GGC TCA GAA CAA GGC 1740
 T V T A H L L G P P G T P G P R R L L K 600
 ACT GTC ACT GCC CAC CTC CTT GGG CCT CCT GGA ACG CCA GGG CCT CGG CGG CTG CTG AAG 1800
 G F Y G S E A Q G V V K D L E P E L L R 620
 GGA TTC TAT GGC TCA GAG GCC CAG GGT GTG GTG AAG GAC CTG GAG CCG GAA CTG CTG CGG 1860
 H L A K G M A S L M I T T K G S P R G E 640
 CAC CTG GCA AAA GGC ATG GCC TCC CTG ATG ATC ACC ACC AAG GGT AGC CCC AGA GGG GAG 1920
 L R G Q R R T V I C D P V V C P P P S C 660
 CTC CGA GGG CAG AGA CGA ACG GTG ATC TGT GAC CCG GTG GTG TGC CCA CCG CCC AGC TGC 1980
 P H P V Q A P D Q C C P V C P E K Q D V 680
 CCA CAC CCG GTG CAG GCT CCC GAC CAG TGC TGC CCT GTT TGC CCT GAG AAA CAA GAT GTC 2040
 R D L P G L P R S R D P G E G C Y F D G 700
 AGA GAC TTG CCA GGG CTG CCA AGG AGC CGG GAC CCA GGA GAG GGC TGC TAT TTT GAT GGT 2100
 D R S W R A A G T R W H P V V P P F G L 720
 GAC CGG AGC TGG CGG GCA GCG GGT ACG CGG TGG CAC CCC GTT GTG CCC CCC TTT GGC TTA 2160
 I K C A V C T C K G G T G E V H C E K V 740
 ATT AAG TGT GCT GTC TGC ACC TGC AAG GGG GGC ACT GGA GAG GTG CAC TGT GAG AAG GTG 2220
 Q C P R L A C A Q P V R V N P T D C C K 760
 CAG TGT CCC CGG CTG GCC TGT GCC CAG CCT GTG CGT GTC AAC CCC ACC GAC TGC TGC AAA 2280

FIG. 6 (2 of 3)

Q C P V G S G A H P Q L G D P M Q A D G 780
 CAG TGT CCA GTG GGG TCG GGG GCC CAC CCC CAG CTG GGG GAC CCC ATG CAG GCT GAT GGG 2340

 P R G C R F A G Q W F P E S Q S W H P S 800
 CCC CGG GGC TGC CGT TTT GCT GGG CAG TGG TTC CCA GAG AGT CAG AGC TGG CAC CCC TCA 2400

 V P P F G E M S C I T C R C G A G V P H 820
 GTG CCC CCT TTT GGA GAG ATG AGC TGT ATC ACC TGC AGA TGT GGG GCA GGG GTG CCT CAC 2460

 C E R D D C S L P L S C G S G K E S R C 840
 TGT GAG CGG GAT GAC TGT TCA CTG CCA CTG TCC TGT GGC TCG GGG AAG GAG AGT CGA TGC 2520

 C S R C T A H R R P A P E T R T D P E L 860
 TGT TCC CGC TGC ACG GCC CAC CGG CGG CCA GCC CCA GAG ACC AGA ACT GAT CCA GAG CTG 2580

 E K E A E G S * 868
 GAG AAA GAA GCC GAA GGC TCT TAG 2604

 GGAGCAGCCAGAGGGCCAAGTGACCAAGAGGATGGGGCCTGAGCTGGGGAAGGGGTGGCATCGAGGACCTTCTTGCAATT 2683

 CTCCTGTGGGAAGCCAGTGCCTTTGCTCCTCTGTCTGCTCTACTCCCACCCCCACTACCTTTGGGAACCCACAGCTC 2762

 CACAAGGGGGAGAGGCAGCTGGGCCAGACCGAGGTCACAGCCACTCCAAGTCCTGCCCTGCCACCCCTCGGCCTCTGTCC 2841

 TTGGAAGCCCCACCCCTTTCTCCTGTACATAATGTCACTGGCTGTGTGGGATTTTAAATTTATCTTCACTCAGCACCA 2920

 AGGGCCCCCGACACTCCACTCCTGCTGCCCTGAGCTGAGCAGAGTCATTATTGGAGAGTTTTGTATTTATTTAAACAT 2999

 TTCTTTTTCAGTCAAAAAAAAAAAAAAGGGCGGCGCC 3037

FIG. 6 (3 of 3)

APAPLLLLLGLLLLGSRPARGAGPEPPVLPPIRSEKEPLPVRGAAGCTFGG 60
 ..|: ||::|::: | :::...|||..|..| :::|||
 QCPPIVVWTLWIM....AVDCSRPKVFLPIQPEQEPLQSKTPAGCTFGG 47
 .
 KVALDETWHPD LGEPFGVMRCVLCACEAPQWGRRTRGPRVSCKNIKPE 110
 |..|:..||| ||| :||| || ||:| |...|: ||| |||..:
 KFYSLED SWHPDLGEPFGVMHCVLCYCE.PQRSRRGKPSGKVSCKNIKHD 96
 .
 CPTPACGQPRQLPGHCCQTCPOERSSSSERQPSGL..SFEYPRDPEHRSYS 158
 ||..|:..| || |||..|||... :... : :||| :... |.
 CPSPSCANPILLPLHCCKTCPKAPPPPIKKSDVFVDFGEYFQEKDDDLN 146
 .
 DRGEPGAERARGDGHTDFVALLTGPR.....SQAVARARVSLLRSSLR 202
 ||: :::: | ::::..: ||| :|. . :||:| |..| ||.
 DRSYLSSDDVAVEESRSEYVALLTAPSHVWPPVTSGVAKARFNLQRSNLL 196
 .
 FSISYRRLDRPTRIRFSDSNGSVLFEHPA...APTQDGLVCGVWRAVPRL 249
 ||..|:..| | ||| | :||| |||.. :...|: :||:| |..|
 FSITYKWIDRLSRIRFSDLDGSVLFEHPVHRMGSPRDDTICGIWRSLNRS 246
 .
 SLRLLRAEQLHVALVTTLTHPSGEVWGPLIRHRALAAETFSAILTLEGPPQ 299
 .||| | ::: |..| | ..|:..|:..|:| | ..| | :|| :...
 TLRLLRMGHILVSLVTTLSEPEISGKIVKHKALFSESFSALLTPEDSDE 296
 .
 QGVGGITLLTSLDTEDSLHFLLLFRGLLEPRSGGLTQVPLRLQILHQGQL 349
 |..|:..| | | :|..| | :|:| | :. :. :|:| :| | :...
 TGGGGLAMLTLSDVDDNLHFI MLRLGLSGEEGD...QIPILVQISHQNHV 343
 .
 LRELQANVSAQEPGFAEVL PNLTVQEMDWLV LGELQMALEWAGRPGLRIS 399
 :||| ||: ||| :||| ||:|. .| | |. |:|:..: .| |.. :|
 IRELYANISAEQDFAEVL PDLSSREMLWLAQQGLEISVQTEGRRPQSMS 393
 .
 GHIAARKSCDVLQSVLCGADALIPVQTGAAGSASLTLLGNGSLIYQVQVV 449
 | |..| | | | :|:| | |..| | | | :| | :| | | :|:|..
 GIITVRKSCDTLQSVLSGGDALNPTKTGAVGSASITLHENG TLEYQIQIA 443

GVPHCERDDCSLPLSCGSGKESRCCSRC.....TAHRRPAPETRTRTDPEL 865
|::| |::|. . :...:| .|||.:.| ...: ...|||. . :
GITQCRRQECTGTTTCGTGSKRDRCCCTKCKDANQDEDEKVKSDETRTPWSF 941